

**Abstract**

An improved railroad frog, and method incorporating the same, for facilitating the intersection of rail lines in a more efficient, effective, and durable manner. In one aspect the invention is a railroad frog apparatus comprising: a body having flangeways that intersect; and at least one connection plug extending from the body for connecting to a running rail; the at least one connection plug having a cross-sectional profile that is substantially identical to a cross-sectional profile of the running rail. In another aspect the invention is a railroad frog apparatus having at least one flangeway having a floor with a convex surface formed of at least one arc. Such geometric surface shape of the floor reduces rail batter, undesirable vibration, and damage to train wheels.